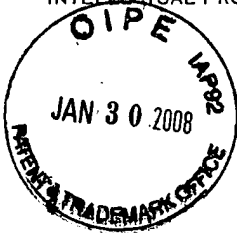




SCULLY, SCOTT, MURPHY & PRESSER PC

INTELLECTUAL PROPERTY LAW



400 GARDEN CITY PLAZA
SUITE 300
GARDEN CITY, NY 11530
516-742-4343
FAX: 516-742-4366
E-MAIL: INTPROP@SSMP.COM
WWW.SSMP.COM

January 25, 2008

LEOPOLD PRESSER
FRANK S. DIGIGLIO
PAUL J. ESATTO, JR.
JOHN S. SENSNY
MARK J. COHEN
EDWARD W. GROLZ
STEVEN FISCHMAN
PETER I. BERNSTEIN
THOMAS SPINELLI
XIAOCHUN ZHU

MARVIN BRESSLER
RICHARD J. DANYKO
DENNIS J. DUNCAN†
EUNHEE PARK
MICHAEL A. PETROCELLI^
KATHERINE R. VIEYRA°
JOHN F. VODOPIA
SETH M. WEINFELD
KEITH A. WELTSCH*
ZHUANG YUAN^

PATENT AGENTS
LESLIE S. SZIVOS, PH.D.
BYEONGJU PARK, PH.D.
QIAN ZHANG

COUNSEL
RICHARD L. CATANIA
BARRY M. KRIVISKY
ALLEN R. MORGANSTERN
ALEK P. SZECZY
STEPHEN A. YOUNG

TECHNICAL CONSULTANTS
DOMINICK A. TUCCIO
HESONG CAO

RETIRED
JOHN F. SCULLY
STEPHEN D. MURPHY

ANTHONY C. SCOTT
1931-1994

°OH BAR ONLY
*DC AND MD BAR ONLY
^CT BAR ONLY
†NJ BAR ONLY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: USSN: 10/587,228
Enhui Liu
Our Docket: 20060

Dear Sirs:

The Filing Receipt for the above-identified patent application does not include the Assignment for Published Patent Application. It should read as follows:

Assignment for Published Patent Application

Huawei Technologies Co. Ltd. of Shenzhen Guangdong Province, P.R. China

as indicated on the enclosed pages. Please make the corrections and send us a corrected Filing Receipt.

Very truly yours,

Scully, Scott, Murphy & Presser, P.C.
Scully, Scott, Murphy & Presser

SSM&P/al
Encl.



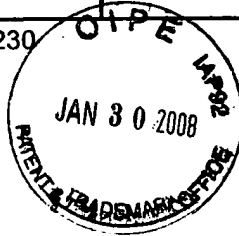
UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPL NO.	FILING OR 371(c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLMS	IND CLMS
10/587,228	03/20/2007	2616	1230	20060	20	4

CONFIRMATION NO. 6704

23389
 SCULLY SCOTT MURPHY & PRESSER, PC
 400 GARDEN CITY PLAZA
 SUITE 300
 GARDEN CITY, NY 11530



FILING RECEIPT



OC000000025478745

Date Mailed: 08/23/2007

Receipt is acknowledged of this nonprovisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Enhui Liu, Guangdong Providence, CHINA;

Power of Attorney: The patent practitioners associated with Customer Number 23389.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/CN05/01094 07/21/2005

Foreign Applications

CHINA 200410070039.7 08/05/2004

If Required, Foreign Filing License Granted: 08/21/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/587,228**

Projected Publication Date: 11/29/2007.

Non-Publication Request: No

Early Publication Request: No

Title

Method, Apparatus, Edge Router and System for Providing Qos Guarantee

Preliminary Class

370

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

D: EDWARD W. GROLZ COMP 7:400 GARDEN CITY PLAZA

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 22, 2007

PTAS

700316602A

700316602A

EDWARD W. GROLZ
400 GARDEN CITY PLAZA
SUITE 300
GARDEN CITY, NY 11530**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/21/2007

REEL/FRAME: 019052/0332

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 20060

ASSIGNOR:

LIU, ENHUI

DOC DATE: 08/01/2006

ASSIGNEE:

HUAWEI TECHNOLOGIES CO., LTD.
HUAWEI ADMINISTRATION BUILDING,
BANTIAN
LONGGANG DISTRICT, SHENZHEN
GUANGDONG PROVIDENCE P.R., CHINA

518129

SERIAL NUMBER: 10587228

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD, APPARATUS, EDGE ROUTER AND SYSTEM FOR PROVIDING QOS

EDWARD W. GROLZ COMP() : 400 GARDEN CITY PLAZA ()

GUARANTEE

019052/0332 PAGE 2

MARCUS KIRK, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

EDWARD W. GROLZ COMP : 400 GARDEN CITY PLAZA

MAR-21-2007 12:43

SCULLY SCOTT

5167424366

P.02/05

03/21/2007
700316602

Docket No.: 20060

FORM PTO-1585 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 9/31/2002)
P03ARREV04

JAN 30 2008

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

Tab settings → → →

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Enhui Liu

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Huawei Technologies Co., Ltd.Address: Huawei Administration Building, Bantian,
Longgang District, Shenzhen, Guangdong
Province

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: August 1, 2006

City: _____ State/Prov.: _____

Country: P.R. China ZIP: 518129

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

B. Patent No.(s)

10/587,228

July 24, 2006

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Edward W. GrolzRegistration No. 33,703Address: 400 Garden City Plaza, Suite 300City: Garden City State/Prov.: NYCountry: USA ZIP: 115306. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

19-1013/SSMP

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Edward W. Grolz

Name of Person Signing

Signature

March 21, 2007

Date

3

Total number of pages including cover sheet, attachments, and document: _____

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office

03/21/2007 10:58/2228

ASSIGNMENT

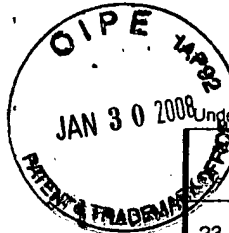
In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned, Enhui Liu

Hereby sell, assign and transfer to Huawei Technologies Co., Ltd. a corporation of China having a place of business at Huawei Administration Building, Bantian, Longgang District, Shenzhen, Guangdong Providence 518129, P.R. China its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all improvements which are disclosed and claimed, and as possessed by the undersigned, any and all improvements which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on even date and is entitled **METHOD, APPARATUS, EDGE ROUTER AND SYSTEM FOR PROVIDING QOS GUARANTEE** and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said applications; and in and to all original and reissued patents which have been or shall be issued on said improvements;

Authorize and request the Commissioner of Patents to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said improvements, or any of them, disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent for said improvements, or any of them; and may claim, in applications for said foreign Letters Patent, the priority of the aforesaid United States application under the provisions of the International Convention; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee its successors, assigns and representatives, all facts known to the undersigned relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Hi\work\188020060\4180\enlgz.doc



U.S. APPLICATION NO (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER	
To be assigned		PCT/CN2005/001094	20060	
23. Other items or information: Five (5) Sheets of Drawings Assignee: Huawei Technologies Co., Ltd. of Shenzhen, Guangdong Province, P.R. China				
The following fees have been submitted:			CALCULATIONS PTO USE	
24. <input checked="" type="checkbox"/> Basic national fee \$300			\$ \$300.00	
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations. \$200			\$ \$200.00	
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). ... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500			\$ \$400.00	
TOTAL OF 24, 25 and 26 =			\$ \$900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE	
36 - 100 =	0 /50 =	0	x \$250.00	
			\$ \$0.00	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).			\$ \$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	*20 - 20 =	0	x \$50.00	
Independent claims	*4 - 3 =	1	x \$200.00	
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00			\$ \$0.00	
TOTAL OF ABOVE CALCULATIONS =			\$ \$1,230.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.			\$ \$0.00	
SUBTOTAL =			\$ \$1,230.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$ \$0.00	
TOTAL NATIONAL FEE =			\$ \$1,230.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +			\$ 0	
TOTAL FEES ENCLOSED =			\$ \$1,230.00	
*Claim calculation based on claims as amended by Preliminary Amendment filed concurrently herewith.			Amount to be	\$
			Amount to be	\$